



Molecular Weight: 274.299
Accurate Mass: 274.112267
Percentage Composition: C 70.06%; H 6.98%; O 11.67%; P 11.29%
Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 111.5-112°

>>**Derivative:** Cyclohexyl ester
Synonym(s): Cyclohexyl diphenylphosphinate

Type of Compound Code(s): AC5040
Molecular Formula: C₁₈H₂₁O₂P
Molecular Weight: 300.336
Accurate Mass: 300.127917
Percentage Composition: C 71.99%; H 7.05%; O 10.65%; P 10.31%
Physical Description: Cryst. (Et₂O)
Melting Point: Mp 119°

>>**Derivative:** Benzyl ester
Synonym(s): Benzyl diphenylphosphinate

CAS Registry Number: 5573-42-2
Type of Compound Code(s): AC6040
Molecular Formula: C₁₉H₁₇O₂P
Molecular Weight: 308.316
Accurate Mass: 308.096617
Percentage Composition: C 74.02%; H 5.56%; O 10.38%; P 10.05%
Physical Description: Cryst.
Melting Point: Mp 67-77°

>>**Derivative:** Ph ester
Synonym(s): Phenyl diphenylphosphinate

CAS Registry Number: 1706-96-3
Type of Compound Code(s): AC6040
Molecular Formula: C₁₈H₁₅O₂P
Molecular Weight: 294.289
Accurate Mass: 294.080967
Percentage Composition: C 73.46%; H 5.14%; O 10.87%; P 10.52%
Physical Description: Prisms (EtOH)
Melting Point: Mp 136-138°

>>**Derivative:** Pentafluorophenyl ester
Synonym(s): FDPP

CAS Registry Number: 138687-69-1
Molecular Formula: C₁₈H₁₀F₅O₂P
Molecular Weight: 384.242
Accurate Mass: 384.033857
Percentage Composition: C 56.27%; H 2.62%; F 24.72%; O 8.33%; P 8.06%
Use/Importance: Peptide coupling reagent
Physical Description: Solid
Melting Point: Mp 47-50°

>>**Derivative:** 1-Naphthyl ester
Synonym(s): 1-Naphthyl diphenylphosphinate

Type of Compound Code(s): AC6040
Molecular Formula: C₂₂H₁₇O₂P
Molecular Weight: 344.349
Accurate Mass: 344.096617
Percentage Composition: C 76.74%; H 4.98%; O 9.29%; P 8.99%
Physical Description: Solid
Melting Point: Mp 122-124°

>>**Derivative:** Fluoride
see Diphenylphosphinic fluoride, [DMH98-C](#)